



CUDWORTH
Urban District Council.

REPORT
OF THE
Medical Officer

FOR THE
YEAR 1914.

CUDWORTH :
NEALE, Printer, Stationer, &c., Barnsley Road.

1915.



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Cudworth Urban District Council.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

For the Year 1914.

Ashley House,

Cudworth,

March, 1915.

To the Chairman and Members of the Cudworth Urban
District Council.

GENTLEMEN,—

It is with great pleasure I am again permitted to submit for your consideration my Annual Report on the Health and Sanitary Condition of your Township for the year ending December 31st, 1914.

Various headings are arranged in the order suggested by the Memorandum on the Preparation of Annual Reports, to ensure the inclusion of all the information required by the Local Government Board.

A—NATURAL AND SOCIAL CONDITIONS OF THE DISTRICT.

(i.) PHYSICAL FEATURES AND GENERAL CHARACTER OF THE DISTRICT.

The District is divided into Four Wards:—North, South, East and West, its area being 1,615 acres, 3 roods, 15 poles—having an undulating surface with the superficial strata composed of the shales and sandstones of the coal measures.

The Industries remain as before, the inhabitants being chiefly coal miners and railway men.

There is a little Brickmaking done, and a little Stone Quarrying.

The elevation of Cudworth above sea level is 250 feet.

(ii.) POPULATION.

At the 1911 census it was 6,852, and for making statistics, I estimate the population at the end of 1914 at 7,760, and upon this basis I calculate the various rates in this report.

The number of inhabited dwelling-houses in Cudworth on June 30th, 1914, was 1,459, and on December 31st, 1914, was 1,478.

Taking the average number of persons per house to be $5\frac{1}{4}$, we may estimate the population at 7,760 at the end of the year.

All but two of the houses were of the cottage class.

TABLE I.
SUMMARY OF VITAL STATISTICS AT A
GLANCE.

Area of C.U.D. . . .	1,615 acres, 3 roods, 15 poles	
Population at 1901 Census . . .	3,415	
„ 1911 Census . . .	6,852	
Population estimated at middle of 1914 . . .	7,660	
„ „ end of 1914 . . .	7,760	
No. of Inhabited Houses at 1901 Census . . .	683	
„ „ „ end of 1914 . . .	1,478	
No. of Houses completed and certified in 1914... (5 more than in 1913)	30	
No. of Nuisances detected and remedied in 1914	59	
Deaths during 1914 . . .	120	
Death Rate per 1,000 population . . .	15.46	
„ Phthisis (Pulmonary) . . .	00.51	
„ Other Tubercular Diseases . . .	00.16	
„ Respiratory . . .	3.86	
Births registered in 1914 . . .	300	
Birth Rate per 1,000 population . . .	38.65	
Infantile Mortality per 1,000 Births . . .	140	
„ (a) under 1 year . . .	5.27	
„ (b) between 1 and 2 years . . .	1.93	
Zymotic Death Rate . . .	00.64	
Total Notification of Infectious Diseases . . .	57	
Rainfall for the year . . .	—	
Excess of Births over Deaths or Natural Increase of the Year . . .	180	

B—SANITARY CIRCUMSTANCES OF THE DISTRICT.

WATER SUPPLY.

The Township is still supplied with good water from the Barnsley Water Works at Midhope and Ingbirchworth. The supply was constant and ample in quantity—practically no complaints were made. It is hard—of good quality—has no plumbo-solvent action—nor is it liable to be in any way contaminated. No diseases have been traced to it.

30 New Houses were supplied.

RIVERS AND STREAMS.

In consequence of the unsatisfactory condition of the existing Sewage Disposal Works, the stream into which the effluent is discharged, is at times polluted.

DRAINAGE AND SEWERAGE.

The Council have had a New Sewage Disposal Scheme prepared, which has been approved by the Local Government Board, and a loan for £6,000 sanctioned. This work is to be put in hand at once. 30 New Houses were connected.

CLOSET ACCOMMODATION.

At the end of 1914 there were in the Township—

(a) Privies with Open Middens	...	18
(b) „ Covered „	...	885
		(25 less than 1913)
(c) Water Closets	... ..	422
		(55 increase)

25 Privies were converted into Water Closets. All new houses had a separate one. Not one earth-closet was constructed, and only one during the last five years.

There are two Waste Water Closets.

Proper doors and coverings are generally provided.

Four additional Closets were provided to old property in 1914.

SCAVENGING.

This continues to be carried out by the Council's own staff, and is more efficiently carried out, complaints being fewer nowadays than when let by contract.

3,910 loads of refuse were conveyed to the tips, viz. :— 2,750 of night soil and 1,160 of dry refuse—*i.e.*, 90 less than in 1913.

The total annual cost is £300.

Night Soil is disposed of to the farmers in the area.

NUISANCES.

During the year 59 Nuisances were detected and remedied.

Blocked and Defective Drains	...	46
Defective Sinks and Gullies...	...	4
„ Closets	... ..	3
Overcrowding ...	... ..	1
Sundries	... ..	5
		—
		59

Informal Notices were served in all the above cases, also three Statutory Notices.

HOUSING.

No. of Houses inspected in 1914	...	270
No. of Notices served	... ..	102
No. <i>not</i> remedied at end of 1914	...	20

PROGRESS OF HOUSING SCHEME.

The Council have considered various Housing Schemes but nothing is yet definitely settled.

During the year many backyards were paved—and I must say the backyards of the district begin to look quite different to former years.

Most of the houses are now supplied with gas.

SCHOOLS.

The Drainage and Sanitary arrangements of the Schools in the Township are well looked after. There was an Epidemic of Measles during the first three months of the year in the North Ward, but it wasn't found necessary to close any of the Schools. They are well lighted and ventilated.

FOOD.

Milk Supply.

This is of a good and wholesome quality. At times one hears of a scarcity. No case of infectious disease was traced to it.

Mr. Robinson, Veterinary, Barnsley, reported a tubercular beast on May 13th, 1914. I visited the farm the same day, and was informed that the beast had been slaughtered.

There are 14 Dairies and Cowsheds in the district. These were inspected every three months, and found in good order.

There is the same number (14) of Cowkeepers, all of which are registered; also four Milk Purveyors all of which are registered.

There are 95 milch cows.

All the Bakehouses were periodically visited and found satisfactory.

There were only three Slaughter Houses in regular use during the year. These were periodically visited, and at times during slaughtering. All were in a satisfactory state.

FACTORIES AND WORKSHOPS' ACT, 1901.

These are the same as in 1913, viz.: 21; and consist of Dressmaking 2, Millinery 1, Boot Repairing 5, Bakehouses 4 (none underground), Joinery 3, Plumbing 2, Blacksmith 1, Cycle Repairing 1, Fellmongering 1, Watchmaking 1.

No sanitary defects were recorded.

C.—SANITARY ADMINISTRATION OF THE DISTRICT.

The following Adoptive Acts are in force :—

1. Public Health Acts' Amendment Act, 1907.
2. Infectious Disease Prevention Act, 1890.
3. Private Street Works' Act, 1892.

THE LIST OF LOCAL BYE-LAWS AND REGULATIONS.

1. Bye-Laws re New Streets and Buildings.

I heard of no prosecutions for adulteration during the year.

HOSPITAL ACCOMMODATION AVAILABLE FOR INFECTIOUS DISEASE.

The Kendray Hospital, at Ardsley, is the one to which our infectious cases are taken. At times there were no beds for the cases, consequently they had to be treated at home until beds were ready. This same difficulty, in removing cases as soon as they were notified, occurred in 1913. So one can reasonably conclude that there is inadequate accommodation at that Institution. This can be avoided, and I advise you to join in with the surrounding districts to enlarge the hospital.

CHEMICAL AND BACTERIOLOGICAL WORK.

Specimens were sent to the County Hall for Bacteriological Examination.

Scrum for Enteric Fever diagnosis	...	5
Swabs for Diphtheria	... ..	3
Sputum (Tuberculosis)	... ..	1
		<hr/> 9

SCARLET FEVER.

There were 24 cases met with during the year—39 less than in 1913.

DISTRIBUTION IN THE WARDS.

North	South	East	West
5	9	4	6

Most cases were met with in January (8) and September (6), and although it was very prevalent throughout England during the year, we were very fortunate in having so few, seeing that our cases were met with eight months out of the twelve. Every child recovered.

22 of the cases were removed to Kendray Hospital, 7 of the cases were found in three houses.

All infected houses were disinfected methodically by fumigation with ^{mic}Formaldehyde, Izal, Disinfecting Powder, and Soap plentifully supplied to the householders.

ERYSIPELAS.

There were six cases notified during the year—8 less than in 1913. No deaths occurred therefrom.

WHOOPING COUGH.

There were two deaths from this disease—the children being 1 and 5 years respectively.

ENTERIC FEVER (TYPHOID).

Nine cases were notified during the year, eight of which were removed to Kendray Hospital, where three of them died.

Three of the cases occurred in one house in Lower Cudworth; two in one house in Market Street; and another in the next house to Bailey's, where six were removed from in 1913. Great pains were taken to try to fathom the origin of the disease, but without success.

PUERPERAL FEVER.

No case was met with.

The work done by the midwives in your district continues to be satisfactory.

DIPHTHERIA.

Eight cases—six of which were removed to Kendray Hospital, where two died:—

North Ward	South Ward	East Ward	West Ward
4	3	—	1

One died at home before medically treated, consequently, the Coroner ordered a post-mortem examination to be made—when it was found that diphtheria was the cause of death.

SMALL-POX.

Again we were quite free from this terrible disease.

Out of 300 children born in Cudworth in 1914, exactly 50 % were vaccinated. This is an improvement on 1913.

If vaccination is wrong, why does the Government insist on it? Think of the thousands of soldiers and sailors who have been vaccinated during the present war.

In Germany, Small-pox is rarely met with, except in unvaccinated persons; it being compulsory during childhood: re-vaccination after 10 years' old; and I think I am correct in saying, again in later life.

MEASLES.

A few cases were still met with at the beginning of the year in the East and West Wards, being a continuation of the epidemic at the end of 1913.

In February, about the third week, a sharp epidemic broke out in the North Ward, and continued until the middle of April. Fourteen deaths occurred.

'Tis strange—but it's a fact—more deaths occur from this disease than from scarlet fever, diphtheria and typhoid fever together.

Mothers almost regard Measles as a disease, which will recover without treatment, and unless they realise that it is such a deadly enemy to young life, many deaths will continue to occur from its complications—acute bronchitis, broncho-pneumonia and meningitis.

As in other infectious diseases, the children should be isolated in warm well ventilated rooms for a fortnight or so—by doing so many of the above-named complications would never occur, and many dear little lives saved.

TABLE II.

ZYMOTIC DISEASES.

AS TO WARDS:—

	Total	Scarlet Fever	Enteric Fever	Erysipelas	Diphtheria	Tuber- culosis (all forms)	Ophthal- mia Neona- torum
North Ward	15	5	1	...	4	2	3
South Ward	23	9	5	2	3	3	1
West Ward	9	4	3	1	...	1	...
East Ward	10	6	...	3	1	...	...
	57	24	9	6	8	6	4

TUBERCULOSIS.

During the year 6 cases of Tuberculosis were diagnosed—5 being Pulmonary (4 of which died) and the other Tuberculosis ~~is~~ of the Peritonéum. The patients, if well enough, attend the Tuberculosis Dispensary at Barnsley—Dr. Rivers being in charge of this work.

An open-air shelter was sent from Wakefield for a case. This was erected in the Old Cricket Field, kindly lent for the benefit of the patient—but I'm afraid the results will be unsatisfactory. The weather was all against the patient during the latter months of the year—however, we must hope for better results in the future.

DEATHS.

The number of deaths registered in the district was 120 (60 males and 60 females). 14 deaths of residents occurred in hospitals, infirmaries, and collieries outside the district, and three of the number of deaths registered were of non-residents—therefore 131 actual deaths of Cudworth residents during the year.

CORRECTED DEATH RATE.

Subtracting those dying in the district, but not belonging to it (3), and adding those dying out, but belonging to it (14), we have the real death rate, 16·88.

TABLE III.

Year.			Death Rate.
1910	...	...	14·64
1911	...	...	14·53
1912	...	...	11·81
1913	...	...	14·68
1914	...	...	15·46

As you will see, the death rate is ·78 higher than in the previous year. This is partly due to two causes, viz.: that 14 deaths occurred in Hospitals, and no fewer than 17 babies died before they reached a month old.

Our Birth Rate (which is ·82 higher than in 1913) entitles us to a certain amount of latitude in the Death Rate—for it means that the death rate must be higher when so many children of tender age are born.

The greatest number of deaths occurred in January (17), February (18), March (14), April and September (13 each), and the least in May (3), November (4), and December (5)—three being visitors who died.

TABLE IV.

As to Mortality at Groups of Ages.

42	Died under 1 year of age
15	„ between 1 and 2 years
21	„ „ 2 „ 5 „
7	„ „ 5 „ 15 „
2	„ „ 15 „ 25 „
7	„ „ 25 „ 45 „
12	„ „ 45 „ 65 „
14	„ over 65 years of age

3	Died between 5 and 15 years	} In Hospital or Infirmary.
2	„ „ 15 „ 25 „	
7	„ „ 25 „ 45 „	
1	„ „ 45 „ 65 „	
1	„ over 65 years of age	

134 (70 Males and 64 Females).

TABLE V.

Vital Statistics of England and Wales in 1914.

1914	England and Wales	Great Towns 97	Smaller Towns 145	England & Wales less the 242 Towns
Birth Rate	23·8	25·0	23·9	22·2
Death Rate	14·0	14·7	12·9	13·4
Zymotic Death Rate	1·2	1·5	1·2	0·8
Infantile Mortality per 1,000 Births	109	117	104	93

THE CAUSES OF DEATH were as follows :—

Bronchitis, 15; Pulmonary Tuberculosis, 4; other Tubercular Diseases, 1; Pneumonia (Acute, Lobar and Broncho), 8; Acute Laryngitis, 4; Whooping Cough, 2; Chronic Bronchial Asthma, 1; Cardiac Disease, 7; Cancer, 2; Nephritis, 3; Cerebral Apoplexy, 6; Influenza, 4; Accident, 1; Ptomaine Poisoning, 1; Measles, 14; Diarrhoea, 7; Premature Birth, 9; Malformation, 3; Atrophy and Marasmus, 5; Pyæmia, 1; Aphthous Stomatitis, 1; Lymphatic Leuchæmia, 1; Senile Decay, 1; Overlaid, 1; Anæmia, 1; Icterus Neonatorum, 2; Gastritis, 1; Strangulated Hernia, 1; Feeble Vitality from Birth, 2; Otitis Media, 2; Improper Feeding, 2; Convulsions, 6; Acute Cerebral Meningitis, 1.

INFANTILE MORTALITY.

During the year 42 deaths (8 more than in 1913) in children under one year old occurred. This yields a death rate of 140 per 1,000 births, and is equivalent to one death in 7.14 births.

TABLE VI.

Causes of Death under 1 year old.

Premature Birth	...	...	...	10
Bronchitis and Broncho-Pneumonia...				8
Diarrhœa	...	...	...	3
Malformations	...	...	...	3
Atrophy	...	...	...	4
Convulsions	...	...	...	4
Improper Feeding	...	...	...	2
Measles	...	...	...	1
Gastritis	...	...	...	1
Congenital Heart Disease			...	1
Overlaid	...	...	...	1
Whooping Cough	...	...	...	1
Icterus Neonatorum	...	...	...	2
Feeble Vitality from Birth	...	...	...	1
				—
				42

AGE DISTRIBUTION OF DEATHS.

	1911	1912	1913	1914
Under 4 weeks	14	14	14	17
1 to 3 months	4	4	5	7
3 to 6 „	10	6	4	10
6 to 9 „	9	5	7	4
9 to 12 „	5	4	4	4
				—
				42
				—
				33
				—
				32
				—
				42

Now 34 of these babies died by the age of six months, and noting that 10 died from Premature Birth and one from Feeble Vitality from Birth—I don't consider the Infantile Mortality high for a colliery district, and compared very favourably with the surrounding districts.

BIRTHS.

There were 300 (159 males and 141 females) registered in your district in 1914, giving a birth rate of 38·65 per 1,000 population per annum, being an increase of 15 over the previous year. This rate is 00·82 higher than in 1913.

Illegitimate children, 13—7 less than in 1913—this rate is 1·94, and is equivalent to one in every 23·07 children born during the year. Four of these died—one at a day old, one at four days old, another at 21 days, and the other at two months old.

AS TO MONTHS.

Most were in January, 38; February 29; May and July, 28 each; and April, 27; and least in August, 14, and June, 16.

Birth Rate in 1910	...	41·67	per 1,000 population
„ 1911	...	41·83	„
„ 1912	...	36·91	„
„ 1913	...	37·83	„
„ 1914	...	38·65	„

TABLE VII.

Year	Males	Females	Total Males and Females
1910	143	127	270
1911	144	141	285
1912	143	132	275
1913	140	145	285
1914	159	141	300

No correct list of still-births that were buried has been kept.

METEOROLOGY.

The guage was removed from my garden on February 6th, 1914, by your Sanitary Inspector, and the position he gave it for the remainder of the year, was not, in his opinion, a suitable one, so one cannot rely on the accuracy of the records.

In December the rainfall was 4·17 inches.

„ July	„	2·71	„
„ November	„	2·66	„
„ April	„	0·48	„

(only two days' rain)

The summer was not a hot one—June 30th was the hottest day, 82 degrees. July 21st was exceptionally hot, too. May was a very cold month at the beginning—and especially on the 9th.

In conclusion, I think I can venture to say there was an improvement in the Sanitary conditions of your district, and I again tender my thanks to the Chairman and Members of the Sanitary Committee for the courtesy and co-operation I have always received when matters relating to the health of the Township were under consideration.

Your Sanitary Inspector has always been willing to carry out my wishes and render me all the help he could in assisting to fathom the origin of any outbreak of infectious disease.

I am, Gentlemen,

Yours obediently,

J. L. ELLIOTT,

Medical Officer of Health.

P.S.—The Local Government Board's Tables of Statistics are added at the end of this report,

CUDWORTH URBAN DISTRICT.

VITAL STATISTICS OF WHOLE DISTRICT DURING
1914 AND PREVIOUS YEARS.

Year.	Population estimated to Middle of each Year.	Births			Total Deaths Registered in the District		Transfer- able Deaths		Nett Deaths belonging to the District.			
		Uncorrected Number	Nett		N'mber	Rate	Of Non-residents reg- istered in the District	Of Residents not reg- istered in the District	Under 1 Year of Age		At all Ages	
			N'mber	Rate					Number	Rate per 1000 Nett Births	N'mber	Rate
1	2	3	4	5	6	7	8	9	10	11	12	13
1909	6165		264	42·62	97	15·73	2	6	43	162	101	16·38
1910	6478		270	41·83	89	13·73	2	6	43	159	93	14·35
1911	6832	285	285	41·83	99	14·53	Nil	7	42	147	106	15·56
1912	7250	275	275	36·91	90	12·08	Nil	6	33	120	96	13·24
1913	7554	285	285	37·69	99	13·09	3	15	34	119	111	14·72
1914	7660	300	300	38·65	120	15·46	3	14	42	140	131	16·88

Total population at all ages ... 6,832 } At Census
 Total families or separate occupiers.. 1,357 } 1911.

Area of District in Acres (Land and Inland Water), 1,615 Acres,
 3 Roods, 15 Poles.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1914.

Notifiable Disease	Number of Cases Notified								Total Cases Notified in each Locality.				Total Cases Removed to Hospital
	At all Ages	Under 1	1 & under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 and upwards	North Ward	South Ward	East Ward	West Ward	
Smallpox ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera, Plague...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous Croup)...	8	...	3	4	...	1	...	...	4	3	...	1	6
Erysipelas...	6	...	...	...	...	3	3	...	...	2	1	3	...
Scarlet Fever ...	24	...	11	13	...	...	...	...	5	9	4	6	22
Typhus Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever ...	9	...	1	5	1	2	...	...	1	5	3	...	8
Relapsing Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cerebro-spinal M'ningitis	...	...	...	...	...	...	...	...	...	...	...	...	...
Poliomyelitis ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ophthalmia Neonatorum	4	4	...	...	...	...	...	...	3	1	...	...	...
Pulmonary Tuberculosis	5	...	1	...	1	3	...	...	2	3	...	...	...
Other forms of do.	1	...	1	...	...	...	...	...	...	...	1	...	...
Totals ...	57	4	17	22	2	9	3	...	15	23	9	10	36

Isolation Hospital or Hospitals—Kendray Hospital (Barnsley Borough) and Lunn Wood Hospital (Monk Bretton) is now being used for wounded soldiers.

Sanatoria, &c.—There is no Sanatorium for Tubercular Patients in the District, but now there is a Dispensary in Barnsley, where they can attend.

CUDWORTH URBAN DISTRICT.
CAUSES OF, AND AGES AT DEATH DURING YEAR 1914.

Causes of Deaths.					All Ages	Under 1 Year	1 and under 2	2 and under 5	5 and under 15	15 and under 25	25 and under 45	45 and under 65	65 and upwards
All Causes	}	Certified	...	...	134	42	15	21	10	4	14	13	15
		Uncertified	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever		...	...	...	3	...	...	...	1	1	1	...	...
Smallpox		...	...	...	...	...	...	...	...	...	...	...	...
Measles		...	...	...	14	1	4	8	1	...	...	...	...
Scarlet Fever		...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough		...	...	...	2	1	...	1	...	...	...	...	...
Diphtheria and Croup		...	...	...	1	...	...	...	1	...	...	...	...
Influenza		...	...	...	4	...	...	1	1	...	1	1	...
Erysipelas		...	...	...	...	...	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuberculosis)		...	...	...	4	...	...	1	...	1	2	...	...
Tuberculosis Meningitis		...	...	...	...	...	...	...	...	...	...	...	...
Other Tuberculosis Diseases		...	...	...	1	...	...	1	...	...	...	...	...
Cancer, Malignant Disease		...	...	...	2	...	...	...	...	...	...	1	1
Rheumatic Fever		...	...	...	...	...	...	...	...	...	...	...	...
Meningitis		...	...	...	1	...	...	...	...	...	1	...	...
Organic Heart Disease		...	...	...	6	...	...	...	...	...	...	6	...
Bronchitis		...	...	...	14	6	3	...	...	1	...	1	3
Pneumonia (all forms)		...	...	...	10	2	1	1	1	...	3	1	1
Other Diseases of Respiratory Organs		...	...	...	5	...	...	3	1	...	...	...	1
Diarrhoea and Enteritis		...	...	...	7	3	1	2	1	...	...	...	...
Appendicitis and Typhlitis		...	...	...	1	...	...	...	...	1	...	...	...
Cirrhosis of Liver		...	...	...	...	...	...	...	...	...	...	...	...
Alcoholism		...	...	...	...	...	...	...	...	...	...	...	...
Nephritis and Bright's Disease		...	...	...	3	...	...	1	...	...	1	...	1
Puerperal Fever		...	...	...	...	...	...	...	...	...	...	...	...
Other Accidents and Diseases of Pregnancy and Parturition		...	...	...	...	...	...	...	...	...	...	...	...
Congenital Debility and Malformation, including Premature Birth		...	...	...	20	19	1	...	...	...	...	...	...
Violent Deaths, excluding Suicide		...	...	...	7	...	...	...	1	...	4	1	1
Suicide		...	...	...	...	...	...	...	...	...	...	...	...
Other Defined Diseases		...	...	...	26	10	5	2	2	...	1	2	4
Diseases ill-defined or unknown		...	...	...	...	...	...	...	...	...	...	...	...
Totals		...	...	...	131	42	15	21	10	4	14	13	12

CUDWORTH URBAN DISTRICT.

INFANTILE MORTALITY DURING THE YEAR 1914.

Nett Deaths from stated causes at various Ages under 1 Year of Age.

Causes of Death.		Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 4 weeks	4 weeks and under 3 mths	3 mths and under 6 mths	6 mths and under 9 mths	9 mths and under 12 mths	Total deaths under 1 year
All Causes	Certified	...	...	...	...	...	...	...	...	...	42
	Uncertified	...	...	...	...	...	...	...	...	...
Smallpox	...	...	...	...	...	...	...	...	...	...	...
Chickenpox	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...	1	1
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	...	...	...	...	1	1
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...	...
Other T'bercul'us Diseases	...	...	...	...	...	...	...	...	...	...	...
Meningitis (not T'berc'l'us)	...	...	...	...	...	...	...	...	...	...	...
Convulsions	...	1	...	...	...	1	1	2	...	...	4
Laryngitis	...	...	...	...	...	...	...	...	...	...	...
Bronchitis	...	1	...	...	...	1	1	2	1	1	6
Pneumonia (all forms)	...	...	...	...	...	...	...	1	1	...	2
Diarrhœa	...	...	...	...	...	...	...	...	2	1	3
Enteritis	...	...	...	...	...	...	...	...	...	...	...
Gastritis	...	...	...	...	...	...	...	1	...	...	...
Syphilis	...	...	...	...	...	...	...	...	...	...	...
Rickets	...	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying	...	...	1	...	...	1	...	...	...	...	1
Injury at Birth	...	...	...	...	...	...	...	...	...	...	...
Atelectasis	...	...	...	...	...	...	...	...	...	...	...
Congenital Malformations	...	2	...	...	...	2	1	...	...	...	3
Premature Birth	...	7	1	...	...	8	1	1	...	...	10
Atrophy, Debility and Marasmus	...	...	...	...	1	1	1	3	...	...	5
Other Causes	...	...	...	...	...	...	...	...	...	...	...
Improper Feeding	...	1	...	...	...	1	1	...	...	...	2
Icterus Neonatorum	...	1	1	...	...	2	...	...	...	...	2
Congenital Heart Disease	...	...	...	...	...	...	1	...	...	...	1
Totals	...	13	2	1	1	17	7	10	4	4	42

Nett Births in the Year $\left\{ \begin{array}{l} \text{legitimate, 287} \\ \text{illegitimate, 13} \end{array} \right.$

Nett Deaths in the year of $\left\{ \begin{array}{l} \text{legitimate infants, 38} \\ \text{illegitimate infants, 4} \end{array} \right.$

